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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO		
10/658,280	09/10/2003	Seiichiro Kanno	500.41374CX1	2470		
20457	7590 05/05/2004		EXAM	EXAMINER		
	LI, TERRY, STOUT &	FUQUA, SHA	FUQUA, SHAWNTINA T			
1300 NORTH SEVENTEENTH STREET SUITE 1800 ARLINGTON, VA 22209-9889			ART UNIT	PAPER NUMBER		
			3742			

DATE MAILED: 05/05/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application	n No.	Applicant(s)		V		
Office Action Summary		10/658,28	0	KANNO ET AL.				
		Examiner		Art Unit				
		Shawntina	T. Fuqua	3742				
Period f	The MAILING DATE of this communication app or Reply	ears on the	cover sheet with the c	orrespondence addr	ress			
THE - External after - If the results of the result	HORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. ensions of time may be available under the provisions of 37 CFR 1.13 or SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period or ure to reply within the set or extended period for reply will, by statute or reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no eve y within the statu will apply and wile, cause the appl	ent, however, may a reply be tin story minimum of thirty (30) day Il expire SIX (6) MONTHS from ication to become ABANDONE	nely filed s will be considered timely. the mailing date of this com D (35 U.S.C. § 133).	municatio	n.		
Status								
1)⊠	Responsive to communication(s) filed on 10 Se	eptember 2	003.					
·		action is no						
′=	Since this application is in condition for allowar			secution as to the n	nerits is	6		
,	closed in accordance with the practice under E							
Disposit	tion of Claims							
4)⊠	Claim(s) 7-10 is/are pending in the application.	•						
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)[Claim(s) is/are allowed.							
6)⊠	Claim(s) <u>7-10</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
8)[Claim(s) are subject to restriction and/or	r election re	equirement.					
Applicat	tion Papers							
9)[The specification is objected to by the Examine	er.						
10)🖂	The drawing(s) filed on 10 September 2003 is/a	are: a)⊠ a	ccepted or b) objec	ted to by the Exami	ner.			
	Applicant may not request that any objection to the	drawing(s) b	e held in abeyance. See	e 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including the correct	tion is require	ed if the drawing(s) is ob	jected to. See 37 CFR	1.121(d).		
11)	The oath or declaration is objected to by the Ex	kaminer. No	te the attached Office	Action or form PTO)-152.			
Priority	under 35 U.S.C. § 119							
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau See the attached detailed Office action for a list	s have been s have been rity docume u (PCT Rule	n received. n received in Applicati ints have been receive e 17.2(a)).	on No ed in this National Si	tage			
Attachmer			_					
	ce of References Cited (PTO-892)		4) Interview Summary	(PTO-413)				
3) 🔯 Infor	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date 9/10/03.		Paper No(s)/Mail Di 5) Notice of Informal F 6) Other:		152)			

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 7 is rejected under 35 U.S.C. 102(b) as being anticipated by Ishii (US5851298).

Ishii discloses a plasma processing apparatus in which a wafer (W) is mounted on an upper member (38) of a stage disposed within a vacuum chamber (2), the stage including a cooling jacket (10) with a path (12) for passing coolant liquid (column 5, lines 20-22) and the upper member (6) including a heater (16) and an electrode (14) for an electrostatic chuck (14), a sealed gap between the upper member and the cooling member (column 5, lines 8-40), and a valve (Figure 1, between #48 and helium tank #50). Although Ishii doesn't explicitly disclose a vacuum condition in the gap between the upper and cooling member, it is inherent that the valve would be used to create a vacuum pressure to enhance the cooling effect of the cooling member (column 5, lines 33-41).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 8-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ishii in view 4. of Hatano et al (US5709757).

Ishii discloses all of the recited subject matter except a mirror surface. Hatano et al discloses a mirror surface (column 6, lines 60-62). It would have been obvious to one of ordinary skill in the art at the time the invention was made to have included the mirror finish of Hatano et al in the apparatus of Ishii because a mirror finish allows radiation heat to be reflected.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shawntina T. Fuqua whose telephone number is (703) 305-2581. The examiner can normally be reached on Monday-Friday 8-4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Shawntina Fuqua can be reached on (703) 308-1327. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

stf

April 29, 2004

Patent Examiner

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